CHECKLIST OF SOUTH DAKOTA BUTTERFLIES (HESPERIOIDEA AND PAPILIONOIDEA)

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ABSTRACT. This paper presents a list of 172 butterfly species (Hesperioidea and Papilionoidea) documented from South Dakota. The list was compiled from records of resident and non-resident collectors, published literature, and university collections. For each species all recorded counties and adult flight periods are given.

Additional key words: distributions, Great Plains.

This paper is the first comprehensive treatment of South Dakota's butterfly fauna. An early list of butterfly species by Truman (1896, 1897) covers an area near Volga, Brookings County. Many of Truman's specimens are deposited in the H. C. Severin Insect Collection at South Dakota State University. Other regional works include those for Sieche Hollow State Park in Marshall and Roberts counties (Masters 1975), and the Black Hills (Conway 1966). Papers treating only a species or group of species include Ferris (1969, 1976, 1981, 1983), Grey et al. (1963), McCabe (1981), Nordin (1967, 1968), and Scott and Stanford (1981). Many records for the western half of the state, west of the 100th meridian, are mapped by Stanford (Ferris & Brown 1981). Stanford and Opler (1993) reported butterfly species occurrences (county dot maps) for the western United States, including all of South Dakota.

South Dakota is known as the "land of infinite variety" because of the diversity of terrain, habitat, and climate. There is a general increase in elevation from 335 m in the southeast to 1035 m in the northwest; the highest point is Harney Peak (2209 m) in the Black Hills and the lowest is on the Minnesota River (293 m) in the northeast corner of the state. The state is mostly gently rolling grassland with the Missouri River dividing it from north to south into two nearly equal parts. The area east of the river is characterized by a glaciated topography with tall grass, low rolling hills, and many lakes and marshes. The western, semi-arid mixed grass prairie, portion of the state has deep valleys and broad upland flats and buttes. The Black Hills, on the extreme western edge of the state, may be regarded as an outpost of the Rocky Mountains. Mean annual precipitation ranges from 66 cm in the southeast and Black Hills, to less than 30.5 cm in the northwest.

One hundred seventy-two species of butterflies are known to occur in South Dakota. Of these, 132 are residents and the remainder are immigrants or strays. Other species undoubtedly will be added to this list as collecting continues. The author encourages anyone who can provide additional information to contact him.

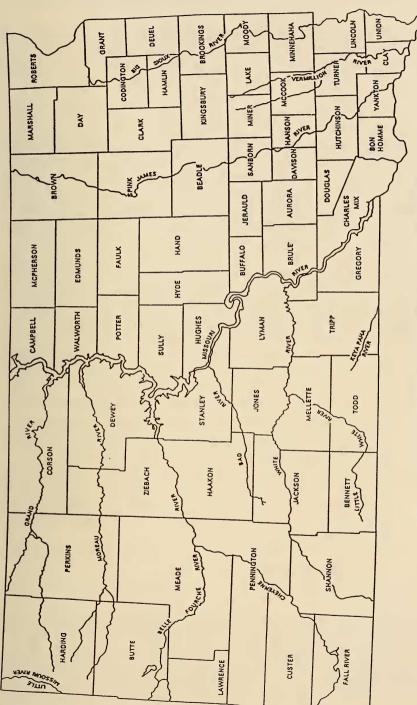


FIG. 1. Map of South Dakota with counties and major rivers indicated.

A "butterfly calendar," illustrating adult flight periods, was developed based on 6,500 South Dakota butterfly records (Table 1). Data were lacking for some species so approximations were made. The number of species occurring per each month is as follows:

Apr	May	Jun	Jul	Aug	Sep	Oct
20	76	137	131	93	53	17

More than 2,500 county records, tabulated through December 1993, are presented. This equates to an average of 39 species from each of South Dakota's 66 counties. County locations and names are shown in Fig. 1. The number of species known per county ranges from 11 for Edmunds County to 117 for Pennington County (Table 2). In general, the counties with the highest totals are those of the Black Hills which is a reflection of a greater sampling effort combined with a broad diversity of habitats. The counties with the fewest reported species are generally highly agricultural or have not been surveyed thoroughly. No species has been documented for all South Dakota counties; however, five species have been recorded for more than 60 of the 66 counties: Pieris rapae, Colias eurytheme, Colias philodice, Lycaeides melissa, and Cercyonis pegala. Twenty-seven counties have fewer than 30 species recorded. South Dakota's total of 172 species ranks fourth among its bordering western Great Plains states: Wyoming-210, Nebraska-197, Montana—187, and North Dakota—143 (Stanford & Opler 1993).

Data for county records were obtained from the following sources:

(1) The collections at South Dakota State University, Brookings; University of South Dakota, Vermillion; Northern State University, Aberdeen; and North Dakota State University, Fargo.

(2) Private collections of Gerald Fauske, Fargo, N.D., who collected primarily in the vicinity of Sioux Falls; Bruce K. Harris, Clear Lake; Abran and Joseph Kean, Pierre; John S. Nordin, formerly of Webster, who collected extensively during 1965 to 1971; and the personal collection of the author.

(3) A review of the literature, including Season Summaries of The Lepidopterists' Society (1976–1993).

(4) South Dakota collection records provided by non-resident collectors.

Taxonomy and nomenclature follow A Catalogue/Checklist of the Butterflies of America North of Mexico (Miller & Brown 1981) and its supplement (Ferris 1989).

The following species and subspecies have type localities designated

in South Dakota:

Erynnis persius fredericki—"Spearfish Canyon, Lawrence Co., South Dakota."

TABLE 1. Summary of butterfly flight periods in South Dakota and general comments on each species. Each mark represents on the average a ten day period. The markings indicate: (.) non flight period, (-) few or worn specimens and (*) fresh specimens.

species	May J	Jun Jul	l Aug	s Sep	Oct	extreme dates	Comments
Epargyreus c. clarus	*	* * *		:	:	May 24-Aug 22	statewide
Thorybes pylades		***	:	:	:	May 23-Jul 25	western ½ SD, univoltine
Staphylus hayhurstii		on	one record	p		Sep 08	Yankton Co., stray?
Erynnis icelus	Ţ	our rec	four records, one date	ne date		Jun 24	Black Hills
Erynnis b. brizo		no dat	no dates available	lable			extreme eastern SD, stray?
Erynnis j. juvenalis	*	:	:	:	:	May 25-Jun 23	scattered statewide, uncommon
Erynnis horatius	two	record	two records, only one date	one da	ıte	Aug 10	extreme eastern SD
Erynnis martialis	*	; -	:	:	:	May 25-Jul 10	northern Black Hills
Erynnis afranius	:	* *:	:	:	:	Jun 23-Jul 30	western 1/3 SD
Erynnis persius fredericki	*	**	:	:	:	May 03-Jul 13	western 1/3 SD
Pyrgus scriptura	· -:	\ :	:	:	:	May 02-Jul 11	statewide, uncommon
Pyrgus communis	*	* * *	**		-	May 24-Oct 15	statewide, common, bivoltine
Pholisora catullus	* *	*	-* **-	:	:	May 07-Aug 10	statewide, bivoltine
Ancyloxypha numitor	:	***	*	; ;	:	Jun 06-Sep 03	statewide, near water
Oarisma powesheik	:	*	: - **	:	:	Jul 01-Jul 14	northeast SD, near wetlands
Oarisma garita	:	· *	: :	:	:	Jun 13-Jul 08	western 1/8 SD
Hylephila p. phyleus		on	one record	p		Oct 07	extreme southeast SD, stray?
Yvretta rhesus	 * *		:	•	:	May 07-Jul 10	western ½ SD
Hesperia u. uncas	:	* * .		;	:	Jun 21-Sep 04	scattered statewide
Hesperia juba		oo	one record	p		Jun 13	Lawrence Co., stray?
Hesperia comma assiniboia	:	•	-: ::	*	:	Aug 21—Sep 04	statewide, uncommon
Hesperia ottoe	:	* *	; !	•	:	Jun 23-Jul 30	statewide, uncommon, native prairie
Hesperia leonardus pawnee	:	:	*.	*	:	Aug 13-Sep 09	statewide
Hesperia p. pahaska	*	**	:	:	:	May 31-Jul 10	western ½ SD
Hesperia dacotae	:	* :	:	:	:	Jun 30-Jul 11	northeast SD, rare, native prairie
Hesperia nevada		on	one record	p		Jul 07	Pennington Co., stray?
Polites peckius	:	* * *		:	:	Jun 07-Aug 31	statewide
Polites themistocles	* -:	* **	 	:	:	May 28-Aug 23	statewide, common
Polites origenes rhena	* :	***	i !	:	:	May 31-Jul 30	northeast and western SD
Polites mystic dacotah	:	* **	· -			Jun 06-Aug 13	statewide wet areas

TABLE 1. Continued.

Species	Мау	Jun	Jul	Aug	Sep	Oct	Range of extreme dates	Comments
Wallengrenia egeremet	:	1:	*	:	:	:	Jul 01-Jul 09	extreme eastern SD, uncommon
Pompeius verna	:	*		:	:	:	Jun 21-Jul 18	southeast SD, rare
Atalopedes c. campestris	:	*	*	*	:	:	Jun 15-Oct 10	statewide, regular southern migrant
Atrytone arogos iowa	:	<u> </u>	*	:	:	:	Jun 25-Jul 26	statewide, uncommon, native prairie
Atrytone logan lagus	*:	*		:	:	:	May 26-Jul 29	statewide
Ochlodes sylvanoides napa	:	1:	::	*.	:	:	Jun 24-Sep 04	northern Black Hills
Poanes m. massasoit	٠	wo rec	two records, only one date	only or	ne date	d)	90 unf	northeast SD, rare
Poanes h. hobomok	*:	 * *		:	:	:	May 26-Jul 25	statewide
Poanes zabulon			one record	scord			Jun 28	Brule Co., stray
Poanes taxiles	:	*:	*	:	:	:	Jun 25-Jul 16	Black Hills
Poanes v. viator	:	:	*	:	:	:	Jul 03-Jul 08	northeast SD, near wetlands, local
Euphyes vestris kiowah	:	* .	*		:	:	Jun 18-Aug 15	statewide, uncommon
Atrytonopsis hianna	*:	*	:	:	:	:	May 24-Jul 04	statewide, scattered, dry hillsides
Amblyscirtes simius	1:	*	:	:	:	:	May 31-Jul 08	Black Hills, uncommon
Amblyscirtes oslari	*:	*	:	:	:	:	May 24-Jun 26	western ½ SD
Amblyscirtes vialis	*	* * *		-	:	:	May 07-Aug 30	statewide, univoltine
Lerodea eufala	두	ree re	three records, only one date	only o	ne dat	e	Jun 25	Minnehaha & Day Cos., southern migrant
Megathymus streckeri leussleri	*.	*	:	:	:	:	May 24-Jul 08	western ½ SD, near yucca
Parnassius phoebus sayii	~;	*	:	:	:	:	Jun 06-Jul 17	Black Hills, near sedum
Battus p. philenor		no	no dates available	availal	ole			stray, Brookings and Minnehaha Cos.
Eurytides marcellus		one	one record, no date	l, no c	late			stray, Minnehaha Co.
Papilio polyxenes asterius	*	*	*	-	-	:	Apr 30-Sep 29	statewide, rare western ½ SD
Papilio b. bairdii	*	:	-		:	:	May 03-Aug 26	western ½ SD, uncommon
Papilio zelicaon nitra	*	*	*	:	:	:	Apr 24-Aug 05	western 1/2 SD, common Black Hills
Papilio i. indra	:	*	-	-		:	Jun 06-Sep 15	Black Hills, rare
Heraclides cresphontes	:	;	:	 * *	:-	:	Jun 10-Sep 01	resident, extreme southeast SD
Pterourus g. glaucus	*	-	-	*	::	:	Apr 29-Sep 04	eastern ½ SD, bivoltine
Pterourus canadensis	:	*	*		:	:	Jun 05-Jul 21	Black Hills and extreme northeast SD
Pterourus r. rutulus	:	:	ľ		:	:	Jul 07-Jul 24	Black Hills, rare
Pterourus multicaudatus	1:	* *	*				May 22-Aug 05	western ½ SD
Pterourus eurymedon	:	*		:	:	:	Jun 16-Jul 20	northern Black Hills, rare

TABLE 1. Continued.

Species	May	lun	Jul	Aug Sep	p Oct	Range of extreme dates	Comments
Pterourus t. troilus		two re	cords,	two records, no dates	S		southern migrant, rare
Neophasia m. menapia	:	:	*	*	:	Aug 08-Sep 18	Black Hills
Pontia sisymbrii nordini	* *	: :	:	:	:		Black Hills and Harding Co.
Pontia protodice	١.	*	* * **	**	:	Mar 03-Oct 06	statewide, common
Pontia o. occidentalis	*	*	- -	:-	:	May 03-Sep 04	mostly western % SD
Pieris napi oleracea		three f	resh sp	three fresh specimens	S	Jul 05	Marshall and Roberts Cos., stray
Pieris napi mcdunnoughi		0	one record	ord		Jun 23	Lawrence Co., stray
Pieris rapae	*	* * *	* * * * * *	* *	:	Apr 16-Oct 06	statewide
Ascia monuste		0	one record	ord		May 26	Brown Co., southern migrant
Euchloe ausonides palaeoreios		***		:	:	May 06-Jul 21	Black Hills
Euchloe olympia	*	· -	:	:	:	Apr 25-Jun 11	statewide, univoltine
Anthocharis sara julia		0	one record	ord		Jun 23	Lawrence Co., migrant
Colias philodice	*	*	***	* *	: 1	Apr 13-Dec 09	statewide, multivoltine
Colias eurytheme	١.	* **	* **	* **	:	May 10-Oct 09	statewide, multivoltine
Colias a. alexandra	1:	:	1	;	:	May 24-Sep 03	Black Hills & Jackson Co., uncommon
Colias alexandra krauthii	:	*		:	:	Jun 23-Jul 27	Black Hills
Zerene c. cesonia	 .		*	:	:	May 10-Aug 30	mostly southeast SD, southern migrant
Phoebis sennae eubele	:	:	:	-	:	Aug 15-Sep 26	southeast SD, rare southern migrant
Phoebis a. agarithe		two re-	sords,	two records, one date	g)	May 21	Brookings and Minnehaha Cos., migrant
Eurema d. daira		one re	cord,	one record, no date			Minnehaha Co., southern migrant
Eurema mexicanum	;	:		:: ::	:		rare southern migrant
Eurema l. lisa	<u>'</u> :	:	1 1:	:	: -	May 28-Oct 01	eastern 1/2 SD, regular migrant
Eurema nicippe		two re	cords,	two records, no dates	S		Minnehaha Co., rare southern migrant
Nathalis iole	1.		-			May 11-Oct 27	regular southern migrant
Feniseca t. tarquinius		one r	cord,	one record, no date			Marshall Co., stray?
Lycaena phlaeas americana		three re	cords,	hree records, one date	te	Jun 01	Jackson Co., stray?
Gaeides xanthoides dione	:	** *	*	:	:	Jun 11—Jul 29	statewide, univoltine
Hyllolycaena hyllus	:	* * *		**-	:	Jun 04-Sep 06	statewide, bivoltine
Chalceria rubida longi	:	· -	:	:	:	Jun 20-Jun 27	western ¼, rare, univoltine
Epidemia helloides	* 			-	:		statewide, multivoltine
Harkenclenus t. titus	:	*	*		:	Jun 16-Aug 29	statewide, univoltine

TABLE 1. Continued.

Species	Мау	Jun	Jul	Aug	Sep	Oct	Range of extreme dates	Comments
Satyrium acadicum montanenis	:	1.	*	:		:	Jun 18-Aug 01	widely scattered statewide, univoltine
Satyrium edwardsii			one record	cord			Jul 05	Roberts Co.
Satyrium calanus falacer	:	1.	1		:		Jun 18-Aug 18	widely scattered statewide
Satyrium caryaevorum			one record	cord			Jun 18	Lawrence Co.
Satyrium liparops	:	* .		:	:	:	Jun 16-Jul 20	scattered statewide, rare
Mitoura s. siva	*:	*		:	:	:	May 24-Aug 05	western ½ SD, univoltine
Mitoura g. grynea			one record	cord			Jul 30	Union Co., stray?
Incisalia augustinus iroides	-		:	:	:		May 03-Jun 22	Black Hills
Incisalia polia obscura			:	:	:	:	May 02-Jun 25	Black Hills, very local
Incisalia e. eryphon		-			-	:	Apr 30-Jun 23	Black Hills, Harding and Todd Cos.
Strymon melinus atrofasciatus		-				:	Apr 30-Sep 29	statewide, multivoltine
Leptotes marina		two	two records, one date	, one	late		Aug 02	Minnehaha and Pennington Cos., rare
Hemiargus isola alce	1:		-	-		:	May 25-Oct 01	statewide, migrant, multivoltine
Everes c. comyntas	1:		-		:-	:	May 27-Sep 09	statewide, multivoltine
Everes amyntula valeriae		*	-	:-	:	:	Apr 28-Aug 01	Black Hills
Celastrina argiolus	*	* *	-	-	:-	:	Apr 05-Sep 02	statewide, multivoltine
Glaucopsyche piasus daunia	:		:	:	:	:	Jun 02-Jun 25	Black Hills and Harding Co.
Glaucopsyche lygdamus oro	*	*	ï	:	:	:	Apr 14-Jul 19	western ½ and northeast SD
Lycaeides m. melissa	* - -	*	*	 * *	-	: 1	May 16-Oct 07	statewide, common, bivoltine
Plebejus s. saepiolus	1:	*	1	:	:	:	May 31-Jul 27	Black Hills and Harding Co.
Icaricia icarioides lycea	:	*	-		:	:	Jun 02-Aug 14	Black Hills and Harding Co.
Icaricia shasta minnehaha			one record	cord			Jun 26	Black Hills, rare
Icaricia acmon lutzi	*:	i	<u>'</u> :	:	:		May 24-Aug 02	western ½ and northeast SD
Agriades r. rusticus	:	*	: 1		:		Jun 03-Jul 09	Black Hills, very local, univoltine
Apodemia m. mormo		one	one record, no date	, no d	ate			Pennington Co., stray?
Libytheana b. bachmanii	:	:	 -:		:	:	Jul 17-Oct 07	eastern 1/4 SD, southern migrant
Agraulis vanillae incarnata		three	three records, one date	s, one	date		Jul 22	rare, stray
Euptoieta claudia	*	*	*	*	-	-	May 09-Oct 18	statewide, regular migrant
Speyeria c. cybele	:	1	*	-	:-	:	Jun 06-Sep 02	statewide, univoltine, forest margins
Speyeria aphrodite	:	*	*		:	:	Jun 08-Aug 14	statewide, univoltine
Speyeria idalia	:	*1.	*		i	:	Jun 12-Sep 14	statewide, except NW corner, prairies

TABLE 1. Continued.

Species	Мау	Jun	Jul	Aug	Sep	Oct	Range of extreme dates	Comments
Speyeria edwardsii	1:	* *	-			:	May 24-Sep 18	western ½ SD, univoltine
Speyeria coronis	:	1.	-	:	:	:	Jun 16-Jul 27	Black Hills & Harding Co., uncommon
Speyeria zerene garretti	:	1:	-	:	:		Jun 23-Aug 05	Black Hills & Harding Co., uncommon
Speyeria callippe calgariana	:	*	*	:	:	:	Jun 06-Jul 14	scattered western ½ SD, univoltine
Speyeria atlantis	:	1.	*		:	:	Jun 18-Aug 15	Black Hills and Shannon Co.
Speyeria mormonia eurynome	:	*:	.	:	:	:	Jun 22-Jul 28	Black Hills and Shannon Co.
Clossiana selene myrina	:	*	*	i	:	:	Jun 15-Aug 15	northeast SD, wet areas
Clossiana selene nebraskensis	1:	*	-	:	:	:	May 29-Jul 23	extreme south central SD, wet areas
Clossiana selene sabulocollis	:		-	:	:	:	Jun 09-Jul 27	Black Hills
Clossiana bellona toddi	-		*		:	:	May 08-Sep 02	eastern 1/4 SD, wet areas
Charidryas gorgone carlota	*				:	:	Apr 10-Sep 05	statewide, bivoltine
Charidryas n. nycteis	:	*	*		:	:	Jun 08-Aug 18	statewide
Charidryas acastus	1.	-	:	:	:	:	May 19-Aug 24	scattered western ½ SD, bivoltine
Anthanassa t. texana			one 1	one record			Jul 07	Roberts Co., rare migrant
Phyciodes t. tharos	*	*	*	*		:	Apr 26-Oct 09	statewide, multivoltine
Phyciodes pascoensis	:	*	*	:	:	:	Jun 16-Jul 14	northeast and western SD, univoltine
Phyciodes batesii	:	*		i	:	:	Jun 08-Aug 15	Black Hills, univoltine
Phyciodes pratensis camillus	:	:	ï	:	:	:	Jul 08-Jul 27	Lawrence and Fall River Cos., uncommon
Phyciodes pallidus barnesi	1:		:	:	:	:	May 25-Jul 08	Black Hills, uncommon
Euphydryas anicia bernadetta	*	*	:	:	:	:	May 08-Jun 25	western 1/4 SD, univoltine
Polygonia interrogationis	1:	*:	* *			;	May 28-Oct 01	statewide, rare western ½ SD
Polygonia comma		-	*	*		:	Apr 24-Oct 07	eastern ½ SD, near woods
Polygonia satyrus		three	recor	hree records, one date	date		Aug 09	Black Hills, uncommon
Polygonia faunus		-			:	:	Apr 26-Aug 18	Black Hills, univoltine
Polygonia zephyrus		*	*		· ¦		Apr 23-Sep 18	Black Hills
Polygonia p. progne	1:	-	*		-	:	Apr 30-Sep 24	statewide, scattered, near woods
Nymphalis vaualbum j-album	;	!	*		i	:	May 05-Sep 13	Black Hills, northeast SD, migrant
Nymphalis c. californica		two	record	two records, no dates	dates			western migrant
Nymphalis a. antiopa	-	-	 * *		 * *		Mar 13-Oct 10	statewide, univoltine
Aglais m. milberti		*	*	-	 * 	:	Apr 09-Sep 27	statewide, common Black Hills
Vanessa virginiensis	1:			;	:	:	May 30-Aug 01	statewide, uncommon

TABLE 1. Continued.

Species	May	Jun	Jun Jul Aug	Aug	Sep	Oct	Range of extreme dates	Comments
Vanessa cardui		1		 * *		:	Mar 31-Sep 22	statewide, large migration '83, '91, '92
Vanessa annabella	:	:	-	:	:	:	Jul 03-Jul 28	Black Hills, western migrant, rare
Vanessa atalanta rubria	-	-	*	*		:	Apr 30-Sep 18	statewide, common migrant
Junonia coenia	:	1:	-	-	-		Jun 30-Oct 15	eastern ½ SD, southern migrant
Basilarchia a. arthemis	:	1:	*		:	:	Jun 29-Aug 14	northeast SD, univoltine
B. arthemis rubrofasciata	:	1.	*	:	:	:	Jun 16-Jul 14	northeast SD, univoltine
B. arthemis astyanax	:	*	-	*	:	:	Jun 07-Sep 09	eastern ½ SD, bivoltine
B. a. archippus	:	*	*	*	:	:	Jun 06-Sep 17	statewide, except northwest SD
B. weidemeyerii oberfoelli	:	*	 * *		:	:	Jun 06-Aug 15	western 1/8 SD, univoltine
Mestra amymone		one	one record, no date	l, no d	ate			Brookings Co., southern migrant
Anaea andria	:	:	1:	-	:	:	Apr 30-Sep 02	southcentral SD, southern migrant
Asterocampa c. celtis	:	*		*	:	:	Jun 04-Sep 02	statewide except northwest SD
Asterocampa c. clyton	:	:	1.	-	:	:	Jul 19-Aug 30	eastern 1/4, rare, univoltine
Enodia anthedon	:	*	*	-	:	:	Jun 16-Aug 24	eastern 1/4 SD, uncommon, wooded areas
Satyrodes eurydice	:	1:	*	;	:	:	Jun 23-Aug 10	eastern % SD, near wetlands
Megisto c. cymela	:	*	*	:	:	:	Jun 12-Jul 31	statewide, wooded areas, univoltine
Coenonympha tullia	*		*		:	:	May 16-Aug 18	statewide, common, prairies
Cercyonis pegala	:	* .	*	*	:-	:	Jun 16-Sep 09	statewide, common, univoltine
Cercyonis m. meadii	:	:	:	*-	:	:	Aug 01-Aug 19	Black Hills & Harding Co., uncommon
Cercyonis oetus charon	:	:	*		:	:	Jun 25-Aug 18	western 1/4 SD, uncommon, univoltine
Neominois r. ridingsii		two	two records, one date	one i	date		Jun 17	Pennington Co., rare
Oeneis c. chryxus		one	one record, no date	l, no d	ate			Pennington Co.
Oeneis uhleri	* .	*		:	:	:	May 10-Jul 17	western 1/4 & northeastern SD, prairies
Danaus plexippus	1.		** ** ** **	* *	**	:	May 13-Oct 02	statewide, regular migrant

TABLE 2. Number of butterfly species documented for South Dakota counties. Counties are listed alphabetically.

Aurora 12 Hyde 22 Beadle 15 Jackson 40 Bennett 38 Jerauld 17 Bon Homme 12 Jones 31 Brokings 81 Kingsbury 22 Brown 33 Lake 23 Brule 46 Lawrence 115 Buffalo 15 Lincoln 35 Butte 33 Lyman 37 Campbell 15 McCook 23 Charles Mix 38 McPherson 39 Clark 16 Marshall 55 Clay 42 Meade 74 Codington 37 Mellette 38 Corson 30 Miner 15 Custer 106 Minnehaha 71 Davison 30 Moody 23 Day 77 Pennington 117 Dewey 21 Potter 29 <th></th> <th></th> <th></th> <th></th>				
Beadle 15 Jackson 40 Bennett 38 Jerauld 17 Bon Homme 12 Jones 31 Brookings 81 Kingsbury 22 Brown 33 Lake 23 Brule 46 Lawrence 115 Buffalo 15 Lincoln 35 Butte 33 Lyman 37 Campbell 15 McCook 23 Charles Mix 38 McPherson 39 Clark 16 Marshall 55 Clay 42 Meade 74 Codington 37 Mellette 38 Corson 30 Miner 15 Custer 106 Minnehaha 71 Davison 30 Moody 23 Day 77 Pennington 117 Deuel 52 Perkins 32 Dewey 21 Potter 29	Aurora	12	Hyde	22
Bon Homme 12 Jones 31 Brookings 81 Kingsbury 22 Brown 33 Lake 23 Brule 46 Lawrence 115 Buffalo 15 Lincoln 35 Butte 33 Lyman 37 Campbell 15 McCook 23 Charles Mix 38 McPherson 39 Clark 16 Marshall 55 Clay 42 Meade 74 Codington 37 Mellette 38 Corson 30 Miner 15 Custer 106 Minnehaha 71 Davison 30 Moody 23 Day 77 Pennington 117 Deuel 52 Perkins 32 Dewey 21 Potter 29 Douglas 20 Roberts 64 Edmunds 11 Sanborn 2	Beadle	15		40
Brookings 81 Kingsbury 22 Brown 33 Lake 23 Brule 46 Lawrence 115 Buffalo 15 Lincoln 35 Butte 33 Lyman 37 Campbell 15 McCook 23 Charles Mix 38 McPherson 39 Clark 16 Marshall 55 Clay 42 Meade 74 Codington 37 Mellette 38 Corson 30 Miner 15 Custer 106 Minnehaha 71 Davison 30 Moody 23 Day 77 Pennington 117 Deuel 52 Perkins 32 Dewey 21 Potter 29 Douglas 20 Roberts 64 Edmunds 11 Sanborn 21 Fall River 87 Shannon <t< td=""><td>Bennett</td><td>38</td><td>Jerauld</td><td>17</td></t<>	Bennett	38	Jerauld	17
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Deuel 52 Perkins 32 Dewey 21 Potter 29 Douglas 20 Roberts 64 Edmunds 11 Sanborn 21 Fall River 87 Shannon 43 Faulk 20 Spink 18 Grant 34 Stanley 51 Gregory 30 Sully 33 Haakon 24 Todd 46 Hamlin 25 Tripp 47 Hand 19 Turner 30 Hanson 17 Union 49 Harding 75 Walworth 26 Hughes 55 Yankton 49	Davison	30	Moody	23
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Fall River 87 Shannon 43 Faulk 20 Spink 18 Grant 34 Stanley 51 Gregory 30 Sully 33 Haakon 24 Todd 46 Hamlin 25 Tripp 47 Hand 19 Turner 30 Hanson 17 Union 49 Harding 75 Walworth 26 Hughes 55 Yankton 49	Douglas	20	Roberts	64
Faulk 20 Spink 18 Grant 34 Stanley 51 Gregory 30 Sully 33 Haakon 24 Todd 46 Hamlin 25 Tripp 47 Hand 19 Turner 30 Hanson 17 Union 49 Harding 75 Walworth 26 Hughes 55 Yankton 49	Edmunds	11	Sanborn	21
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Gregory 30 Sully 33 Haakon 24 Todd 46 Hamlin 25 Tripp 47 Hand 19 Turner 30 Hanson 17 Union 49 Harding 75 Walworth 26 Hughes 55 Yankton 49	Faulk	20	Spink	18
Haakon 24 Todd 46 Hamlin 25 Tripp 47 Hand 19 Turner 30 Hanson 17 Union 49 Harding 75 Walworth 26 Hughes 55 Yankton 49	Grant	34	Stanley	51
Hamlin 25 Tripp 47 Hand 19 Turner 30 Hanson 17 Union 49 Harding 75 Walworth 26 Hughes 55 Yankton 49	Gregory	30	Sully	33
Hand 19 Turner 30 Hanson 17 Union 49 Harding 75 Walworth 26 Hughes 55 Yankton 49	Haakon	24	Todd	46
Hanson 17 Union 49 Harding 75 Walworth 26 Hughes 55 Yankton 49	Hamlin	25	Tripp	47
Harding 75 Walworth 26 Hughes 55 Yankton 49	Hand	19	Turner	30
Hughes 55 Yankton 49	Hanson	17	Union	49
	Harding	75	Walworth	26
Hutchinson 23 Ziebach 26	Hughes	55	Yankton	49
	Hutchinson	23	Ziebach	26

Hesperia dacotae—"Volga, South Dakota and Grinnell, Iowa."

Euchloe ausonides palaeoreios—"Spearfish Canyon, Lawrence Co., South Dakota."

Colias alexandra krauthii—"Black Hills, 12 mi. W. of Custer, Custer Co., South Dakota."

Everes amyntula valeriae—"Lead, South Dakota."

Speyeria atlantis lurana—"Harney Peak, Black Hills, South Dakota."

COUNTY RECORDS OF SOUTH DAKOTA BUTTERFLIES

Superfamily Hesperioidea Family Hesperiidae

 Epargyreus clarus clarus (Cramer)—Brookings, Brule, Clay, Custer, Davison, Day, Deuel, Dewey, Fall River, Hand, Harding, Hughes, Lake, Lawrence, Meade, Mellette, Minnehaha, Pennington, Roberts, Shannon, Stanley, Union.

- 2. Thorybes pylades (Scudder)—Custer, Fall River, Harding, Lawrence, Lincoln, Lyman, Mellette, Pennington, Roberts, Yankton.
- 3. Staphylus hayhurstii (W. H. Edwards)—Yankton.
- 4. Erynnis icelus (Scudder and Burgess)—Custer, Lawrence, Pennington.
- 5. Erynnis brizo brizo (Boisduval and Le Conte)—Brookings, Minnehaha.
- Erynnis juvenalis juvenalis (Fabricius)—Brookings, Charles Mix, Custer, Lawrence, Meade, Mellette, Pennington, Roberts, Todd.
- 7. Erynnis horatius (Scudder and Burgess)—Brookings, Day, Yankton.
- 8. Erynnis martialis (Scudder)—Lawrence.
- 9. Erynnis afranius (Lintner)—Butte, Custer, Fall River, Harding, Lawrence, Meade, Pennington, Shannon, Ziebach.
- 10. Erynnis persius fredericki H. A. Freeman—Custer, Harding, Lawrence, Meade, Pennington, Perkins.
- 11. Pyrgus scriptura (Boisduval)—Custer, Fall River, Jackson.
- 12. Pyrgus communis (Grote)—Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clay, Codington, Corson, Custer, Davison, Day, Fall River, Grant, Gregory, Haakon, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Lake, Lawrence, Lincoln, Lyman, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Pennington, Potter, Roberts, Sanborn, Shannon, Stanley, Sully, Todd, Tripp, Union, Walworth, Yankton.
- 13. Pholisora catullus (Fabricius)—Bennett, Brookings, Brule, Butte, Charles Mix, Clay, Codington, Corson, Custer, Davison, Day, Dewey, Fall River, Faulk, Gregory, Haakon, Hanson, Harding, Hughes, Hutchinson, Jackson, Jones, Lawrence, McPherson, Meade, Mellette, Minnehaha, Pennington, Potter, Sanborn, Shannon, Stanley, Sully, Todd, Tripp, Turner, Yankton.
- Ancyloxypha numitor (Fabricius)—Bennett, Brookings, Clark, Clay, Codington, Day, Deuel, Fall River, Grant, Hamlin, Hughes, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, McCook, Minnehaha, Pennington, Roberts, Shannon, Stanley, Walworth. Yankton.
- 15. Oarisma powesheik (Parker)—Brookings, Brown, Codington, Day, Deuel, Grant, Hamlin, Marshall, Roberts.
- Oarisma garita (Reakirt)—Butte, Custer, Fall River, Harding, Lawrence, Meade, Pennington.
- 17. Hylephila phyleus phyleus (Drury)—Clay.
- 18. Yvretta rhesus (W. H. Edwards)—Bennett, Corson, Custer, Fall River, Harding, Jackson, Perkins.
- 19. Hesperia uncas uncas W. H. Edwards—Brookings, Codington, Custer, Day, Deuel, Fall River, Harding, Hughes, Jackson, Lawrence, McPherson, Meade, Pennington, Perkins, Potter, Stanley, Sully, Todd, Tripp.
- 20. Hesperia juba (Scudder)—Lawrence.
- 21. Hesperia comma assiniboia (Lyman)—Bennett, Custer, Day, Fall River, Harding, Lawrence, Marshall, McPherson, Pennington.
- 22. Hesperia ottoe W. H. Edwards—Brookings, Corson, Day, Deuel, Fall River, Harding, Lawrence, Pennington, Tripp, Union, Ziebach.
- 23. Hesperia leonardus pawnee Dodge—Bennett, Brookings, Butte, Custer, Day, Fall River, Harding, Hughes, Jackson, Lawrence, Marshall, Meade, Mellette, Pennington, Perkins. Roberts. Shannon. Stanley. Tripp. Union.
- 24. Hesperia pahaska pahaska (Leussler)—Custer, Fall River, Harding, Lawrence, Pennington, Ziebach.
- 25. Hesperia dacotae (Skinner)—Brookings, Brown, Codington, Day, Deuel, Grant, Hamlin, Marshall, McPherson, Moody, Roberts.
- 26. Hesperia nevada (Scudder)—Pennington.
- Polites peckius (W. Kirby)—Aurora, Brookings, Brown, Codington, Corson, Custer, Davison, Day, Deuel, Douglas, Hamlin, Hanson, Harding, Lawrence, Lincoln, Marshall, McPherson, Minnehaha, Moody, Pennington, Roberts, Tripp, Union, Yankton.
- 28. Polites themistocles (Latreille)—Aurora, Brookings, Brown, Brule, Clay, Codington, Custer, Davison, Day, Deuel, Fall River, Gregory, Hamlin, Hand, Hanson, Harding,

Hughes, Hyde, Jones, Lawrence, Lyman, Marshall, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Roberts, Stanley, Tripp, Turner, Union, Yankton.

29. Polites origenes rhena (W. H. Edwards)—Brookings, Codington, Custer, Day, Fall River, Harding, Lawrence, Marshall, Meade, Pennington, Shannon, Union.

30. Polites mystic dacotah (W. H. Edwards)—Aurora, Bennett, Brookings, Brown, Clark, Codington, Custer, Day, Deuel, Douglas, Fall River, Hamlin, Kingsbury, Lake, Lawrence, Lincoln, Marshall, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Roberts, Spink, Todd.

31. Wallengrenia egeremet (Scudder)—Brookings, Day, Deuel, Marshall, Roberts.

32. Pompeius verna (W. H. Edwards)-Hutchinson, Turner, Yankton.

33. Atalopedes campestris campestris (Boisduval)—Bon Homme, Brookings, Brown, Charles Mix, Clay, Codington, Custer, Day, Deuel, Fall River, Grant, Gregory, Hughes, Jackson, Lake, Lawrence, Lincoln, Marshall, McPherson, Meade, Minnehaha, Roberts, Shannon, Spink, Stanley, Todd, Tripp, Union, Yankton.

34. Atrytone arogos iowa (Scudder)—Brookings, Brown, Custer, Day, Deuel, Fall River, Gregory, Lawrence, McPherson, Meade, Roberts, Stanley, Todd, Tripp.

35. Atrytone logan lagus (W. H. Edwards)—Brookings, Brule, Clay, Codington, Corson, Custer, Day, Deuel, Douglas, Edmunds, Fall River, Grant, Gregory, Hamlin, Hand, Harding, Hughes, Hutchinson, Jerauld, Kingsbury, Marshall, McCook, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Spink, Tripp, Union, Walworth, Yankton, Ziebach.

36. Ochlodes sylvanoides napa (W. H. Edwards)—Butte, Lawrence, Meade.

37. Poanes massasoit massasoit (Scudder)—Brookings, Roberts.

38. Poanes hobomok hobomok (Harris)—Brookings, Brule, Charles Mix, Custer, Davison, Day, Deuel, Douglas, Fall River, Haakon, Harding, Hughes, Jerauld, Lake, Lawrence, Lyman, Marshall, McCook, Mellette, Minnehaha, Pennington, Roberts, Stanley, Tripp, Turner, Union.

39. Poanes zabulon (Boisduval and Le Conte)—Brule.

40. Poanes taxiles (W. H. Edwards)—Custer, Fall River, Lawrence, Meade, Pennington.

41. Poanes viator viator (W. H. Edwards)—Brookings, Day, Deuel, Roberts.

42. Euphyes vestris kiowah (Reakirt)—Brookings, Brule, Custer, Day, Fall River, Harding, Lawrence, Marshall, Minnehaha, Pennington, Perkins, Roberts, Stanley, Sully, Todd, Tripp, Walworth.

43a. Atrytonopsis hianna ssp.—Day, Marshall, McPherson, Roberts.

43b. Atrytonopsis hianna turneri H. A. Freeman—Bennett, Fall River, Haakon, Harding, Jones, Lyman, Meade, Mellette, Pennington, Perkins, Shannon.

44. Amblyscirtes simius W. H. Edwards—Custer, Fall River, Meade, Pennington. 45. Amblyscirtes oslari (Skinner)—Custer, Fall River, Haakon, Harding, Lawrence,

Meade, Mellette, Pennington.

46. Amblyscirtes vialis (W. H. Edwards)—Brookings, Charles Mix, Custer, Day, Fall River, Gregory, Haakon, Harding, Hughes, Hutchinson, Jackson, Jones, Lawrence, Lincoln, Meade, Mellette, Pennington, Perkins, Sanborn, Shannon, Sully, Todd, Tripp, Walworth.

47. Lerodea eufala (W. H. Edwards)-Day, Minnehaha.

48. Megathymus streckeri leussleri Holland—Custer, Fall River, Harding, Jackson, Lawrence, Meade, Pennington, Stanley, Todd, Ziebach.

Superfamily Papilionoidea

Family Papilionidae

49. Parnassius phoebus sayii W. H. Edwards—Custer, Lawrence, Meade, Pennington. 50. Battus philenor philenor (Linnaeus)—Brookings, Minnehaha.

51. Eurytides marcellus (Cramer)—Minnehaha.

52. Papilio polyxenes asterius Stoll—Bennett, Bon Homme, Brookings, Brown, Brule, Charles Mix, Custer, Davison, Day, Deuel, Fall River, Grant, Haakon, Hand, Hughes, Lawrence, Marshall, Minnehaha, Potter, Roberts, Stanley, Turner, Union, Yankton.

- 53. Papilio bairdii bairdii W. H. Edwards—Custer, Fall River, Harding, Pennington, Shannon, Stanley.
- 54. Papilio zelicaon nitra W. H. Edwards—Butte, Custer, Fall River, Harding, Lawrence, McPherson, Meade, Pennington, Perkins, Shannon, Ziebach.
- 55. Papilio indra indra Reakirt—Custer, Fall River, Lawrence, Pennington.
- 56. Heraclides cresphontes (Cramer)—Brookings, Codington, Lincoln, Minnehaha, Union, Yankton.
- 57. Pterourus glaucus glaucus (Linnaeus)—Brookings, Brown, Brule, Charles Mix, Codington, Davison, Day, Deuel, Douglas, Faulk, Gregory, Hamlin, Hand, Hughes, Hutchinson, Hyde, Jerauld, Kingsbury, Lake, Lincoln, Lyman, Marshall, McCook, Mellette, Miner, Minnehaha, Moody, Roberts, Spink, Stanley, Tripp, Turner, Union, Walworth, Yankton.
- 58. Pterourus canadensis (Rothschild and Jordan)—Custer, Fall River, Lawrence, Meade, Pennington, Roberts.
- 59. Pterourus rutulus rutulus (Lucas)—Custer, Fall River, Lawrence, Pennington.
- 60. Pterourus multicaudatus (W. F. Kirby)—Brule, Custer, Fall River, Harding, Lawrence, Meade, Pennington, Shannon, Todd.
- 61. Pterourus eurymedon (Lucas)—Lawrence, Pennington.
- 62. Pterourus troilus troilus (Linnaeus)—Minnehaha, Pennington.

Family Pieridae

- 63. Neophasia menapia menapia (C. and R. Felder)—Custer, Fall River, Lawrence, Meade, Pennington.
- 64. Pontia sisymbrii nordini (K. Johnson)—Custer, Fall River, Harding, Lawrence, Pennington.
- 65. Pontia protodice (Boisduval and Le Conte)—Beadle, Bennett, Brookings, Brule, Buffalo, Butte, Charles Mix, Clay, Corson, Custer, Davison, Day, Douglas, Fall River, Gregory, Hand, Harding, Hughes, Hutchinson, Hyde, Jackson, Jones, Lawrence, Lincoln, Lyman, McCook, McPherson, Meade, Miner, Minnehaha, Pennington, Potter, Sanborn, Shannon, Spink, Stanley, Sully, Tripp, Turner, Union, Yankton.
- 66. Pontia occidentalis occidentalis (Reakirt)—Bennett, Brule, Butte, Corson, Custer, Day, Fall River, Hughes, Hyde, Lawrence, Lyman, McPherson, Mellette, Pennington, Sanborn, Stanley, Sully, Walworth, Ziebach.
- 67a. Pieris napi oleracea Harris-Marshall, Roberts.
- 67b. Pieris napi mcdunnoughi Remington—Lawrence.
- 68. Pieris rapae (Linnaeus)—Aurora, Bennett, Bon Homme, Brookings, Brown, Brule, Buffalo, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton.
- 69. Ascia monuste ssp.—Brown.
- 70. Euchloe ausonides palaeoreios K. Johnson-Custer, Lawrence, Meade, Pennington.
- 71. Euchloe olympia W. H. Edwards—Bennett, Brookings, Brule, Butte, Campbell, Clay, Corson, Custer, Dewey, Fall River, Haakon, Harding, Hughes, Jackson, Jones, Lawrence, Lyman, Marshall, McPherson, Meade, Mellette, Minnehaha, Pennington, Perkins, Potter, Shannon, Stanley, Sully, Todd, Union, Yankton, Ziebach.
- 72. Anthocharis sara julia W. H. Edwards-Lawrence.
- 73. Colias philodice ssp.—Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.

- 74. Colias eurytheme Boisduval—Aurora, Beadle, Bennett, Bon Homme, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
- 75a. Colias alexandra alexandra W. H. Edwards—Custer, Fall River, Jackson, Penning-

75b. Colias alexandra krauthii Klots—Custer, Fall River, Lawrence, Pennington.

- 76. Zerene cesonia cesonia (Stoll)—Brookings, Butte, Charles Mix, Corson, Fall River, Gregory, Hughes, Minnehaha, Pennington, Roberts, Sanborn, Stanley, Union, Yankton
- 77. Phoebis sennae eubule (Linnaeus)—Clay, Minnehaha, Union.
- 78. Phoebis agarithe agarithe (Boisduval)—Brookings, Minnehaha.

79. Eurema daira daira (Godart)—Minnehaha.

80. Eurema mexicanum (Boisduval)—Corson, Custer, Minnehaha, Pennington.

81. Eurema lisa lisa (Boisduval and Le Conte)—Brookings, Clay, Day, Hughes, Minnehaha, Union, Yankton.

82. Eurema nicippe (Cramer)—Minnehaha.

83. Nathalis iole Boisduval—Bon Homme, Brookings, Charles Mix, Clay, Custer, Day, Deuel, Fall River, Gregory, Hughes, Jackson, Lawrence, Lyman, Minnehaha, Roberts, Sanborn, Stanley, Turner, Union, Yankton.

Family Lycaeidae

84. Feniseca tarquinius tarquinius (Fabricius)—Roberts.

85. Lycaena phlaeas americana Harris—Brown, Jackson, Meade.

86. Gaeides xanthoides dione (Scudder)—Bennett, Brookings, Brule, Buffalo, Charles Mix, Clay, Corson, Custer, Day, Deuel, Douglas, Fall River, Grant, Gregory, Harding, Hughes, Jackson, Jones, Lawrence, Lyman, Marshall, McPherson, Meade, Minnehaha, Pennington, Perkins, Potter, Shannon, Stanley, Sully, Todd, Tripp.

87. Hyllolycaena hyllus (Cramer)—Beadle, Bennett, Brookings, Brule, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Edmunds, Fall River, Faulk, Grant, Gregory, Hamlin, Hand, Hanson, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lawrence, Lyman, Marshall, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Potter, Roberts, Shannon, Spink, Sully, Todd, Tripp, Turner, Union, Yankton.

88. Chalceria rubida longi (K. Johnson and Balogh)—Butte, Custer, Harding, Lawrence,

Meade, Pennington.

- 89. Epidemia helloides (Boisduval)—Bennett, Brookings, Brule, Butte, Clark, Custer, Day, Dewey, Haakon, Harding, Hughes, Jackson, Jones, Lawrence, Marshall, Meade, Mellette, Minnehaha, Pennington, Potter, Roberts, Shannon, Stanley, Todd, Tripp.
- 90. Harkenclenus titus titus (Fabricius)—Bennett, Bon Homme, Brookings, Brule, Charles Mix, Codington, Day, Deuel, Fall River, Grant, Gregory, Harding, Hughes, Lawrence, Marshall, Meade, Pennington, Potter, Roberts, Stanley, Sully, Todd, Tripp, Union, Walworth, Ziebach.
- 91. Satyrium acadicum montanensis (Watson and W. P. Comstock)—Beadle, Brookings, Brown, Kingsbury, Lawrence, Lyman, McCook, Meade, Pennington, Todd, Tripp.

92. Satyrium edwardsii (Grote and Robinson)—Roberts.

93. Satyrium calanus falacer (Godart)—Brule, Charles Mix, Day, Deuel, Lawrence, Meade, Minnehaha, Roberts, Sully, Tripp, Union.

94. Satyrium caryaevorum (McDunnough)—Lawrence.

95. Satyrium liparops ssp.—Day, Harding, Hughes, Jackson, Lawrence, Lyman, Minnehaha, Pennington.

96. Mitoura siva siva (W. H. Edwards)—Brule, Custer, Fall River, Haakon, Harding, Hughes, Jackson, Jones, Lyman, Meade, Mellette, Pennington, Shannon, Ziebach.

97. Mitoura grynea grynea (Hübner)-Union.

98. Incisalia augustinus iroides (Boisduval)—Custer, Lawrence, Meade, Pennington.

99. Incisalia polia obscura Ferris and Fisher-Custer, Lawrence, Pennington.

100. Incisalia eryphon eryphon (Boisduval)—Custer, Fall River, Harding, Lawrence,

Meade, Pennington, Todd.

101. Strymon melinus atrofasciatus McDunnough—Bennett, Bon Homme, Brookings, Brule, Butte, Charles Mix, Clay, Custer, Davison, Day, Fall River, Gregory, Haakon, Harding, Hughes, Jackson, Lawrence, Lyman, McCook, Meade, Mellette, Minnehaha, Pennington, Shannon, Stanley, Sully, Todd, Tripp, Union, Yankton, Ziebach.

102. Leptotes marina (Reakirt)—Minnehaha, Pennington.

- 103. Hemiargus isola alce (W. H. Edwards)—Brookings, Butte, Clay, Codington, Custer, Day, Fall River, Haakon, Hamlin, Hanson, Harding, Hughes, Jones, Lawrence, Lyman, Marshall, Meade, Minnehaha, Pennington, Stanley, Sully, Todd, Tripp, Union, Yankton, Ziebach.
- 104. Everes comyntas comyntas (Godart)—Brookings, Brown, Campbell, Charles Mix, Clay, Codington, Custer, Davison, Day, Faulk, Grant, Gregory, Haakon, Hamlin, Harding, Hughes, Jackson, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Mellette, Minnehaha, Moody, Pennington, Potter, Roberts, Sully, Todd, Tripp, Union, Walworth, Yankton.

105. Everes amyntula valeriae Clench-Custer, Fall River, Harding, Lawrence, Pen-

nington.

106. Celastrina argiolus ssp.—Beadle, Brookings, Brule, Clay, Codington, Custer, Davison, Day, Deuel, Dewey, Douglas, Fall River, Hanson, Harding, Hughes, Jerauld, Kingsbury, Lake, Lawrence, Lincoln, Marshall, McPherson, Meade, Minnehaha, Moody, Pennington, Roberts, Shannon, Stanley, Union, Yankton.

107. Glaucopsyche piasus daunia (W.H. Edwards)—Custer, Harding, Lawrence, Pen-

nington

108. Glaucopsyche lygdamus oro (Scudder)—Butte, Campbell, Corson, Custer, Day, Dewey, Fall River, Harding, Hughes, Jackson, Jones, Lawrence, Marshall, Meade,

Mellette, Pennington, Perkins, Shannon, Stanley, Sully.

- 109. Lycaeides melissa melissa (W. H. Edwards)—Aurora, Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hanson, Harding, Hughes, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Union, Walworth, Yankton, Ziebach.
- 110. Plebejus saepiolus saepiolus (Boisduval)—Custer, Fall River, Harding, Lawrence, Meade, Pennington.

111. Icaricia icarioides lycea (W. H. Edwards)—Custer, Harding, Lawrence, Pennington.

112. Icaricia shasta minnehaha (Scudder)—Lawrence, Pennington.

113. *Icaricia acmon lutzi* (dos Passos)—Bennett, Butte, Custer, Day, Fall River, Harding, Jackson, Lawrence, Meade, Mellette, Pennington, Perkins, Todd.

114. Agriades rusticus rusticus (W. H. Edwards)—Custer, Lawrence, Pennington.

Family Riodinidae

115. Apodemia mormo mormo (C. and R. Felder)—Pennington.

Family Libytheidae

116. Libytheana bachmanii bachmanii (Kirkland)—Brookings, Clay, Davison, Day, Minnehaha, Yankton.

Family Heliconiidae

117. Agraulis vanillae incarnata (Riley)—Butte, Minnehaha, Pennington.

Family Nymphalidae

118. Euptoieta claudia (Cramer)—Bennett, Bon Homme, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clay, Codington, Custer, Davison, Day, Deuel, Dewey, Douglas, Fall River, Faulk, Grant, Hamlin, Hand, Harding, Hughes, Jackson, Jones, Kingsbury, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.

119. Speyeria cybele cybele (Fabricius)—Brookings, Brule, Clay, Corson, Custer, Day, Deuel, Dewey, Faulk, Grant, Gregory, Hamlin, Harding, Hutchinson, Hyde, Jackson, Jones, Lawrence, Lincoln, Lyman, Marshall, McCook, Meade, Miner, Minnehaha, Pennington, Perkins, Potter, Roberts, Stanley, Sully, Todd, Tripp, Turner,

Union, Walworth, Yankton.

120. Speyeria aphrodite alcestris (W. H. Edwards)—Brookings, Codington, Corson, Custer, Day, Deuel, Fall River, Grant, Haakon, Harding, Hughes, Lawrence, Marshall, McPherson, Meade, Minnehaha, Pennington, Perkins, Roberts, Shannon, Union, Walworth, Ziebach.

- 121. Speyeria idalia (Drury)—Beadle, Bennett, Bon Homme, Brookings, Brown, Brule, Campbell, Charles Mix, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Douglas, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hanson, Hughes, Hutchinson, Hyde, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Minnehaha, Moody, Pennington, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
- 122. Speyeria edwardsii (Reakirt)—Bennett, Brule, Butte, Custer, Dewey, Fall River, Harding, Hughes, Jackson, Jones, Lawrence, Lyman, McPherson, Meade, Mellette, Pennington, Shannon, Stanley, Sully, Todd.
- 123. Speyeria coronis ssp.—Custer, Fall River, Harding, Lawrence, Pennington. 124. Speyeria zerene garretti (Gunder)—Custer, Harding, Lawrence, Pennington.
- Speyeria callippe calgariana (McDunnough)—Campbell, Custer, Fall River, Harding, Lawrence, McPherson, Meade, Pennington, Perkins, Ziebach.

126a. Speyeria atlantis ssp.—Custer, Lawrence, Pennington.

- 126b. Speyeria atlantis lurana dos Passos and Grey—Custer, Lawrence, Meade, Pennington.
- 127. Speyeria mormonia eurynome (W. H. Edwards)—Custer, Lawrence, Pennington, Shannon.
- 128a. Clossiana selene myrina (Cramer)—Brookings, Brown, Codington, Day, Deuel, Grant, Marshall, McPherson, Roberts.
- 128b. Clossiana selene nebraskensis (Holland)—Bennett, Mellette, Todd.

128c. Clossiana selene sabulocollis (Kohler)—Custer, Lawrence, Pennington.

129. Clossiana bellona toddi (Holland)-Brookings, Brown, Clay, Day, Deuel, Grant,

Kingsbury, Marshall, Miner, Minnehaha, Moody, Roberts.

- 130. Charidryas gorgone carlota (Reakirt)—Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Charles Mix, Corson, Custer, Day, Dewey, Fall River, Faulk, Haakon, Harding, Hughes, Hutchinson, Hyde, Jones, Lawrence, Lyman, Marshall, McPherson, Meade, Mellette, Minnehaha, Pennington, Perkins, Shannon, Spink, Stanley, Todd, Tripp, Union, Yankton, Ziebach.
- 131. Charidryas nycteis nycteis (Doubleday and Hewitson)—Bennett, Brookings, Brule, Clay, Custer, Day, Deuel, Dewey, Gregory, Hyde, Lawrence, Marshall, Minnehaha, Pennington, Roberts, Todd, Yankton.
- 132. Charidryas acastus (W. H. Edwards)—Brule, Custer, Harding, Hughes, Stanley.

133. Anthanassa texana texana (W. H. Edwards)—Roberts.

134. Phyciodes tharos (Drury)—Beadle, Bennett, Brookings, Brown, Brule, Buf-

falo, Butte, Campbell, Charles Mix, Clay, Codington, Corson, Custer, Davison, Dav. Deuel, Dewey, Douglas, Fall River, Faulk, Grant, Gregory, Haakon, Harding, Hughes, Hutchinson, Hyde, Jackson, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp. Turner, Union, Walworth, Yankton, Ziebach.

135. Phyciodes pascoensis W. G. Wright—Brookings, Custer, Day, Deuel, Grant, Har-

ding, Jackson, Lawrence, Marshall, Pennington, Roberts.

136. Phyciodes batesii (Reakirt)—Custer, Lawrence, Meade, Pennington. 137. Phyciodes pratensis camillus W. H. Edwards-Fall River, Lawrence.

138. Phyciodes pallidus barnesi Skinner-Custer, Fall River, Lawrence.

139. Euphydryas anicia bernadetta Leussler—Butte, Custer, Fall River, Harding, Lawrence, Pennington.

- 140. Polygonia interrogationis (Fabricius)—Bon Homme, Brookings, Brule, Charles Mix, Clay, Davison, Day, Deuel, Faulk, Grant, Hughes, Hyde, Lake, Lincoln, Marshall, Meade, Mellette, Minnehaha, Pennington, Roberts, Stanley, Todd, Turner, Union, Walworth, Yankton.
- 141. Polygonia comma (Harris)—Brookings, Charles Mix, Clay, Custer, Day, Deuel, Dewey, Gregory, Hand, Hughes, Hutchinson, Hyde, Lincoln, Lyman, Marshall, Minnehaha, Potter, Roberts, Turner, Walworth, Yankton.

142. Polygonia satyrus (W. H. Edwards)—Custer, Lawrence, Pennington.

143. Polygonia faunus ssp.—Custer, Fall River, Lawrence, Meade, Pennington.

144. Polygonia zephryus (W. H. Edwards)—Custer, Fall River, Lawrence, Meade, Pennington.

145. Polygonia progne progne (Cramer)—Brookings, Brule, Custer, Day, Fall River, Harding, Lawrence, Lincoln, Minnehaha, Pennington, Roberts, Yankton.

146. Nymphalis vau-album j-album (Boisduval and Le Conte)—Brookings, Custer, Lawrence, Marshall, Meade, Pennington, Roberts.

147. Nymphalis californica californica (Boisduval)—Brookings, Lawrence.

148. Nymphalis antiopa antiopa (Linnaeus)—Bennett, Brookings, Brown, Brule, Butte, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Fall River, Faulk, Grant, Hand, Harding, Hughes, Hutchinson, Jackson, Jerauld, Jones, Lake, Lawrence, Lincoln, Lyman, Marshall, McPherson, Meade, Mellette, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Shannon, Stanley, Sully, Todd, Tripp, Turner, Union, Yankton, Ziebach.

149. Aglais milberti milberti (Godart)—Brookings, Custer, Day, Deuel, Fall River, Harding, Hughes, Lawrence, Meade, Minnehaha, Pennington, Perkins, Shannon, Stan-

150. Vanessa virginiensis (Drury)—Brookings, Butte, Codington, Custer, Day, Deuel, Edmunds, Fall River, Jackson, Lawrence, Meade, Minnehaha, Pennington, Stanley,

Turner, Union, Yankton.

151. Vanessa cardui (Linnaeus)—Aurora, Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Miner, Minnehaha, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.

152. Vanessa annabella (Field)—Pennington.

153. Vanessa atalanta rubria (Fruhstorfer)—Beadle, Bennett, Brookings, Brown, Brule, Butte, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Haakon, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.

154. Junonia coenia Hübner-Aurora, Brookings, Brown, Brule, Charles Mix, Clay, Cod-

ington, Custer, Day, Deuel, Edmunds, Lincoln, Minnehaha, Tripp, Turner, Union, Yankton.

155a. Basilarchia arthemis arthemis (Drury)—Brookings, Day, Marshall, Roberts.

155b. Basilarchia arthemis rubrofasciata Barnes and McDunnough—Brookings, Brown, Day, Deuel, Marshall, Minnehaha, Roberts.

155c. Basilarchia arthemis astyanax (Fabricius)—Brookings, Charles Mix, Clark, Clay, Codington, Davison, Day, Deuel, Grant, Hamlin, Hand, Hughes, Kingsbury, Lincoln, Marshall, Minnehaha, Moody, Roberts, Stanley, Turner, Union, Yankton.

- 156. Basilarchia archippus archippus (Cramer)—Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Charles Mix, Clark, Clay, Davison, Day, Deuel, Douglas, Fall River, Grant, Hand, Hanson, Hughes, Hutchinson, Hyde, Jackson, Jones, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, Miner, Minnehaha, Moody, Pennington, Potter, Roberts, Sanborn, Shannon, Stanley, Sully, Todd, Turner, Union, Yankton.
- 157. Basilarchia weidemeyerii oberfoelli (F. M. Brown)-Custer, Fall River, Harding, Jackson, Lawrence, Meade, Pennington, Perkins, Shannon, Todd.

158. Mestra amymone (Ménétriés)—Brookings.

159. Anaea andria Scudder—Shannon, Todd, Tripp.

- 160. Asterocampa celtis celtis (Boisduval and Le Conte)—Brookings, Brule, Buffalo, Charles Mix, Clay, Davison, Day, Fall River, Grant, Hughes, Hutchinson, Kingsbury, Lincoln, Marshall, McCook, Minnehaha, Roberts, Stanley, Todd, Tripp, Turner, Union, Walworth, Yankton.
- 161. Asterocampa clyton clyton (Boisduval and Le Conte)—Brookings, Day, Kingsbury, Lincoln, Minnehaha, Yankton.

Family Satyridae

162. Enodia anthedon A. H. Clark—Day, Deuel, Lincoln, Marshall, Minnehaha, Roberts, Tripp.

163. Satyrodes eurydice ssp.—Bennett, Brookings, Corson, Day, Deuel, Grant, Hamlin,

Hughes, Marshall, McCook, Moody, Roberts, Todd, Tripp.

164. Megisto cymela cymela (Cramer)—Aurora, Bennett, Bon Homme, Brookings, Brule, Charles Mix, Clark, Clay, Corson, Day, Deuel, Douglas, Faulk, Gregory, Harding, Hughes, Hutchinson, Jerauld, Lawrence, Lincoln, Marshall, Minnehaha, Roberts, Sanborn, Stanley, Sully, Tripp, Turner, Union, Yankton.

165a. Coenonympha tullia ssp.—Aurora, Bennett, Brookings, Brule, Charles Mix, Codington, Corson, Davison, Day, Deuel, Dewey, Grant, Gregory, Haakon, Hamlin, Hughes, Jackson, Jerauld, Jones, Lake, Lyman, Marshall, McPherson, Mellette, Min-

nehaha, Perkins, Potter, Roberts, Sanborn, Shannon, Stanley, Sully, Todd, Tripp,

Turner, Walworth, Ziebach. 165b. Coenonympha tullia benjamini McDunnough—Butte, Custer, Fall River, Harding,

Lawrence, Meade, Pennington.

- 166. Cercyonis pegala spp.—Aurora, Bennett, Bon Homme, Brookings, Brown, Brule, Buffalo, Butte, Campbell, Charles Mix, Clark, Clay, Codington, Corson, Custer, Davison, Day, Deuel, Dewey, Douglas, Edmunds, Fall River, Faulk, Grant, Gregory, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Meade, Mellette, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Shannon, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton, Ziebach.
- 167. Cercyonis meadii meadii (W. H. Edwards)—Fall River, Harding, Lawrence, Meade, Pennington.
- 168. Cercyonis oetus charon (W. H. Edwards)—Custer, Harding, Lawrence, Meade, Pennington, Perkins.

169. Neominois ridingsii ridingsii (W. H. Edwards)—Pennington.

170. Oeneis chryxus chryxus (Doubleday and Hewitson)—Pennington.

171. Oeneis uhleri ssp.—Brookings, Brown, Butte, Custer, Day, Fall River, Harding, Lawrence, Marshall, McPherson, Pennington, Perkins, Potter, Roberts, Shannon.

Family Danaidae

172. Danaus plexippus (Linnaeus)—Aurora, Beadle, Bennett, Brookings, Brown, Brule, Buffalo, Campbell, Charles Mix, Clark, Clay, Codington, Custer, Davison, Day, Deuel, Douglas, Fall River, Faulk, Grant, Gregory, Hamlin, Hand, Hanson, Harding, Hughes, Hutchinson, Hyde, Jackson, Jerauld, Jones, Kingsbury, Lake, Lawrence, Lincoln, Lyman, Marshall, McCook, McPherson, Miner, Minnehaha, Moody, Pennington, Perkins, Potter, Roberts, Sanborn, Spink, Stanley, Sully, Todd, Tripp, Turner, Union, Walworth, Yankton.

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